

GUJARAT UNIVERSITY

BE ATKT EXAM 2013

Branch: Computer Engineering

Semester: VI

Subject: COMPUTER NETWORK

1	Differences between Star topology and ring topology
2	Differences between Packet switching and circuit switching.
3	Differences between Synchronous Communication and Asynchronous Communication
4	Explain in terms of Data Link Control and physical layer concepts how error and flow control are accomplished in Synchronous Time division multiplexing.
5	Compare the following communication processing devices: MULTIPLEXER, CONCENTRATOR and FRONT-END PROCESSOR
6	A block of data consisting of 2048 bits is transmitted between two computers interconnected by 450 m of twisted-pair wire. If the transmission rate is 34 kbps determine a , the ratio of propagation delay to transmission delay.
7	A file is downloaded to a home computer using a 56 kbps modem connected to an Internet Service Provider. If the download completes in 2 minutes, estimate the maximum size of data downloaded.
8	A data link between the head office of a financial organization and one of its branches runs continuously at 2.048 Mbps. Between the hours of 0900 and 1700 it is noted that there are 295 bits received in error. Determine the bit error rate
9	Explain with diagram Bus topology
10	Explain with diagram Transmission media
11	Explain with diagram Multiplexing
12	Explain with diagram Parallel Transmission
13	Explain with diagram Serial Transmission
14	Explain with diagram Error and its types.
15	Explain with diagram Transmission mode
16	What is LAN? What is WAN? What is MAN? Describe differences among them.
17	What is difference between a port address, a logical address and a physical address?
18	List and explain Star and Bus topology in detail.
19	Why do we need carrier signal?
20	Explain 'Null Modem' in detail.
21	List and explain Star and Bus topology in detail.
22	What is inverse Multiplexing? Explain.
23	Explain distance vector routing
24	List difference between OSI and TCO/IP model
25	List difference between Transport layer and Network layer
26	Explain the working principle of CSMA
27	Discuss the working principle of UDP
28	Explain in detail IPV6
29	Discuss the working principle of TCP

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30	Discuss the working principle of UDP
31	Explain working principle of limited contention protocols
32	Explain the working principle of stop and wait protocol
33	List demerits of unguided transmission media
34	List difference between Transport layer and Network layer
35	What is computer network, network hardware, network software?
36	Draw and explain OSI model
37	Draw and explain TCP/IP model
38	Comparison of OSI and TCP/IP model
39	Explain x.25
40	Explain Frame Relay, ATM
41	Explain The Ethernet, wireless LANs: 802.11
42	Explain Design Issues framing of data link layer.
43	Explain error control of data link layer
44	Explain flow control of data link layer
45	Explain stop and wait protocol of data link layer
46	Explain sliding window protocol of data link layer
47	Explain HDLC protocol of data link layer
48	Explain the working of ALOHA
49	How CSMA protocol will work?
50	Explain link state routing protocol of network layer
51	Give difference between connection oriented and connection less service.
52	Give difference between virtual circuit and datagram subnets
53	Explain Shortest path routing, flooding
54	Explain distance vector routing